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Filing and Security Primary C	y Case: 321D-IR-A7788	Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT
Serial Num	nber: 18	ONIGAMISS AIRCRAFT
	ized: 03/26/2009	ALL INFORMATION CONTAINED
	ated: 07/02/2012	HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K42

Details		•
	ial #: 18	Type: EC
Document '	Title: UAS DEMONSTRATIONS AT	QUANTICO, 03/05/2009.
Approval i Classifica		
Cont	ents:	,
	Precedence: ROUTINE Da	ute: 03/26/2009
	To: CIRG Attn: FFOU	
	From: CIRG ASTOS/FFOU Contact: SSA	,
	Approved By	
	Drafted By:	
	Case ID #: 321D-IR-A77	88 (Pending)
	Title: UNMANNED AERIAI FIELD FLIGHT OPERATION BUREAU AIRCRAFT OPERAT	IS UNIT;
	Synopsis: UAS Demonstr	ations at Quantico,
	demonstration was host for the benefit of the	attended a UAS ne Corps Base Quantico. The ced by Technical Response Unit ("TRU") e Federal Aviation Administration ("FAA") ders such as the Airline Pilots
	The largest and most o	capable system demonstrated was
	Also demonstrated were	amaller IIAGa guah aa

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		b3 b7E
During the demonstrations, the investigating Agent discussed the future of Bureau UASs with Unit Chie and Program Manager	f	b6 b70
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Routing Drafted by:		b6 b70
Approved by:		2,0

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Filing and Security Primary Case:	321D-IR-A7788	Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:	21	ONEANIED AIRCIGIT	
	04/29/2009	ALL INFORMATION CONTAINED	
	07/02/2012	HEREIN IS UNCLASSIFIED	
11111(ACC).	07/02/2012	DATE 12-31-2013 BY NSICG F54M93K42	
Details Serial #:	21	Type: EC	
Document Title:	GROUND PORTION OF 14 CFR *	61.56 FLIGHT REVIEW	
Approval Date: Classification:	04/29/2009 SN		
Contents:			
	Precedence: ROUTINE Date:	04/29/2009	
		Pending) FEMS ("UAS");	b6 b7С
	This trained was conducted integrate unmanned aerial surveillance program. To e of safety, SSA will copilot (Single Engine) an Intelligence Specialist Avindividuals operate Instructor Pilot SSA of ground instruction for a reconstruction of second contraction of ground instruction of g	Aviation Surveillance Branch. as part of ASB's ongoing effort to systems ("UAS") into the FBI's nsure the highest practical levels be trained as an FBI Special Agent d ET will receive lation ("ISA") training. Both UASs provided n in fulfilment of the 14 CFR * view of the general operating and l. The flight portion and copilot will be scheduled.	b6 b7C b7E

used during the training has been nosted to the Swistion Summour Unit intranet site at In addition to the training provided by SSR In addition Summour Street S	Working Copy		b7E
In addition to the training provided by SSA In addition to the training provided by SSA Is setured program. Also, SSA discussed the Bureau's Aviation Safety Program. With the entire day devoted to the study of Aviation regulations, policies, and safety topics, this meating should be received as a xequired quarterly safety meeting for SSA setured quarterly safety meeting for SSA entered Technical Response Unit: Standard STA entered Technical Response Unit: Standard STA entered Technical Response Unit. Bimultaneously, SSA entered SSA enter			
Iss lectured on the Bureau's forward looking infrared program. Also, SSA discussed the Bureau's Aviation Safety Program. With the entire day devoted to the study of Aviation Safety Program. With the entire day devoted to the study of Aviation regulations, policies, and safety topics, this meeting should be recorded as a required quarterly safety meeting for SSA SSA and ET On 04/29/2009, SS entered Technical Response b6 Unit's unmanned aerial systems into Professional Flight b7C Ranagement ("FFM"). b7C Ranagement ("FFM"). b6 b7C Band BT into PFM SSA sestioned crew number Finally, SSA sent an e-mail to SSA and ET describing the procedures for installing FFM at Technical Response Unit. LEAD(s): Set Lead 1: (Action) OPERATIONAL TECHNOLOGY AT TRU, VA SSA should complete the Bureau Aviation b6 written tests, install FFM, and contact SSA for a copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRG AT MANASSAS, VA Read and clear. **	nosted to the Aviation Support Unit intranet site at		b7E
On 04/29/2009, SS	ISA lectured on the Bureau's forward looking infrared program. Also, SSA discussed the Bu Aviation Safety Program. With the entire day devoted to study of Aviation regulations, policies, and safety top this meeting should be recorded as a required quarterly	o the pics,	
number ET is assigned crew number Finally, SSA sent an e-mail to SSA and ET describing the procedures for installing PFM at Technical Response Unit. LEAD(s): Set Lead 1: (Action) OPERATIONAL TECHNOLOGY AT TRU, VA SSA should complete the Bureau Aviation written tests, install PFM, and contact SSA for a copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRG AT MANASSAS, VA Read and clear. ** Routing Drafted by: Drafted by: Drafted by: Bassioned crew number is assigned crew number.	On 04/29/2009, SSIentered Technical Response Unit's unmanned aerial systems into Professional Flight	:	b7C
Set Lead 1: (Action) OPERATIONAL TECHNOLOGY AT TRU, VA SSA should complete the Bureau Aviation b6 written tests, install PFM, and contact SSF for a copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRC AT MANASSAS, VA Read and clear. ** Routing Drafted by: b6 b7c	number ET into PFM. SSA is assigned or number is assigned crew number Finally, SSA sent an e-mail to SSA and ET describing the procedures for installing PFM at Technic	crew	
AT TRU, VA SSA should complete the Bureau Aviation b6 written tests, install PFM, and contact SSA for a b7C copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRG AT MANASSAS, VA Read and clear. ** Routing Drafted by: b6 b7C			
SSA should complete the Bureau Aviation b6 written tests, install PFM, and contact SSR for a copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRG AT MANASSAS, VA Read and clear. ** Routing Drafted by: b6 b7C	OPERATIONAL TECHNOLOGY		
written tests, install PFM, and contact SSA for a copilot flight training and evaluation, as well as training in PFM. Set Lead 2: (Info) CIRG AT MANASSAS, VA Read and clear. ** Routing Drafted by: b6 b7C	AT TRU, VA		
CIRG AT MANASSAS, VA Read and clear. ** Routing Drafted by: b6 b7c	written tests, install PFM, and contact SSA for a copilot flight training and evaluation, as well as train		
Read and clear. ** Routing Drafted by: b6 b7C			
** Routing Drafted by: b6 b7C	AT MANASSAS, VA		
Routing Drafted by: b6 b7C	Read and clear.		
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Drafted by: 56	Manager .		
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Filing and Se Prim	ecurity nary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
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***************************************	initiated:	07/02/2012 DATE 12-31-2013 BY NSICG F54M93K42	
Details			
Details	Serial #:	25 Type: EC	
Docur	nent Title:	6TH ANNUAL SMALL UNMANNED AERIAL SYSTEM USER REVIEW	
	oval Date:		
	Contents:		
		Precedence: ROUTINE Date: 07/13/2009	
		To: Operational Technology Attn: TPS/TRU SSA CIRG Attn: FFOU b	6 7C
		From: CIRG ASTOS/ASB/ASU Contact: SSA	
		Approved By:	
		Drafted By:	
		Case ID #: 321D-IR-A7788 (Pending) 319T2-HQ-A148766A-OTD (Pending)	
		Title: UNMANNED AERIAL SYSTEMS;	
		BUREAU AIRCRAFT OPERATIONS	
		Synopsis: 6th Annual Small Unmanned Aerial System User Review	5
		attended the 6th Annual Small Unmanned Aerial System ("SUAS") b'	7C 7E
		The second session, held at the secret level,	
		By way of definition, SUASs are generally accepted to be unmanned air vehicles	
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			Referral/Consult
	These FAA restrictions effectively eviscerate most hope of the FBI operationally employing UASs to conduct the surveillance, photography, and communications relay mission being conducted daily by our manned aircraft fleet. This gloomy outlook contrasted starkly with the optimism felt be most conference participants. The other attendees were overwhelmingly from the military special operations communications and Rangers, and the United States Marine Corps all gave outstanding presentations on SUAS operations and training. All presenters had substantial combat UAS experience overseas. These briefings made it clear that SU are performing well, saving American lives, and helping to take enemy lives every day in Iraq and Afghanistan. The difficulty in obtaining COAs and accessing the NAS are, at most, an inconvenience to these military operators because restrictions make home station training less convenient an less available. Because these forces operate outside of th NAS, friction with the FAA, does not have an operational impact.	ns Y ity. ASs the	
ſſ	For the FBI, the situation is reversed. Lack of NAS access prevents us from using SUAS operationally. While we can train on military bases, our opportunities to actually this training to conduct our domestic law enforcement and intelligence missions is severely limited. SSA described a recent successful deployment by his unit of UAS overseas. He reported that the system performed well a the host nation was thankful for the assistance. This performance demonstrated that the primary barriers to rout UAS employment are regulatory and not technical.	use nd	b6 b7C b7E Referral/Consult

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The technical presentations did a good job of highlighting evolving SUAS capabilities.	b3 b7F
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The classified briefings highlighted new SUAS capabilities that, while very impressive,	
are not particularly relevant to the FBI mission. In conclusion, the biggest challenge to Bureau use	
of UASs is routine access to the NAS. The status quo will not be resolved before 2012 at the earliest and the nature of that resolution is not predictable. If TRU succeeds in getting its training COA south of Quantico, obtaining emergency COAs may become easier. Even if this happens, the requirement to notify the public of a COA may possibly restrict UAS employment to situations in which FBI involvement is already public knowledge. FFOU will continue to partner with TRU on this emerging technology.	-
LEAD(s):	
Set Lead 1: (Info)	
OPERATIONAL TECHNOLOGY	
AT TRU, VA	·
Read and clear.	
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розовани	
Routing Drafted by:	b6 b70
Approved by:	

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:		
	11/10/2010	
	07/02/2012 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED	
**************************************	DATE 12-31-2013 BY NSICG F54M93K4:	2
B		
Details Serial #:	41 Type: EC	
Document Title:	RECOMMEND STANDARD OPERATING PROCEDURES (SOP) FOR THE	•
Approval Date: Classification	, ,	
Contents		
	Precedence: ROUTINE Date: 11/10/2010	
	To: Critical Incident Response Attn: ASC ASB/FFO SSA ASB/FFO	b6 b7С
	From: Operational Technology Traditional Technology Section/Video Surveillance Unit Contact: SSA	
	Approved By:	
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending)	
	Title: Unmanned Aerial Vehicle (UAV) Unmanned Ground Vehicle (UGV)	
	Synopsis: Recommend Standard Operating Procedures (SOP) for the request and implementation of services for UAV by field offices and operating requirements and parameters for equipment and personnel operating these vehicles.	b7E
	Enclosure(s): U.S. Department of Transportation, Federal Aviation Administration, Air Traffic Organization Policy NJ07110.52 effective 12/16/2009 Federal Aviation Administration, Memorandum, Unmanned Aircraft Systems Operations in the U.S. National Airspace System - Interim Operational Approval Guidance, dated 12/16/2005 Interim Operational Approval Guidance 08-01 Unmanned Aircraft Systems, Operations in the U.S. National Airspace System dated 03/13/2008	
	Details: Operational Technology Division (OTD)/Traditional Technology Section (TTS)/Video Surveillance Unit (VSU) currently has an inventory of UAVs	b7E

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Filing and Sec Prima		321D-IR-A7788	Case Title:	(U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial I	Number:	42		UNIANNED AIRCRAFT	
		12/20/2010			
		07/02/2012		ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED	
**************************************		0,,02,2022		DATE 12-31-2013 BY NSICG F54M93K42	
Details					
	Serial #:	42	Type:	OTHER	
Docume	ent Title:	ENCLOSURE			
• •	val Date: ification:				
c	ontents:	Airworthiness Statement			
		Re: FAA UAPO (AIR-160) I	nterim Operat:	onal Approval Guidance 08-	
		Proponent: Federal Burea Surveillance Branch, Att Agent		Supervisory Special	ь6 ь70
		Aircraft Type: Small UAS	-		b7E
		Manufacturer:			
		Design Standards:			b7E
•				_	
		listed on this Airworthic credibility for solid de		All small UAS have a history of proven and airworthiness.	
		All systems c		sold and operated safely by public" entities.	
		singular Airworthiness S	un on the same tatement spec nd criteria fo	arying in weight and size e platform. Issuance of a flying the details of our or these unmanned systems	b7E
		a thorough ground in	spection and pecklists is action the system me	ecomplished to ensure the eet the design and	b7E
		listed in the UAS Operat	or's Manual. <i>R</i> est may indepe	arough all flight maneuvers at any time all FBI team andently note irregularities	
		completion of the accept after a 100% successful ground inspection and pr	all phase oper e-flight, laur	the UAS is accepted only ration pre-flight brief, ach, flight operations and flight brief. Anything less	

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Verifying Safety-of-Flight and Continuous Airworthiness: The Airworthiness Statement is issued with the full understanding that each opportunity to operate the UAS requires a thorough visual and system check of the aircraft and the ground continuation systems to ensure the continued airworthiness for entering "Class G" airspace. The pre-flight checklist provising the Operator's Manual is thorough and complete. We utilist this checklist for each pre-flight and readily delay or about mission for any failure to pass the pre-flight.	ng h rol ded ze
Risk Mitigation Standards: Currently, each of our UAS' are operated less than hours per year. The size and weight our unmanned systems are and we fly with the risk to mitigate for the risk to miti	thin
hazards of unmanned flight: 1) air collision risk to people and property in flight, and 2) ground collision risk people and property on the ground is considered low to very risk for operation of our UAS'.	to low
Our flights are conducted within visual observation per the The Observer and Pilot are qualified and current, fly one U a time, and are trained in the sterile cockpit rule during launching, landing, and all emergency or extraordinary even The Observer and Pilot communicate through direct communicate and we have loss of communication procedures established shan emergency cause a separation or inability to directly communicate. Applicable ATC, military control, when require and emergency contact numbers are readily available during operation.	AS at ts. tion ould d,
Our safety procedures for loss of link, mid-air obstacles, anytime the aircraft shows signs of unstable or unsafe operallows the pilot to resume	

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:	44	
Serialized:	01/18/2011 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED	
Initiated:	07/02/2012 DATE 12-31-2013 BY NSICG F54M93K42	
**************************************	•	
Details Serial #:		
Document Title:	FBI ACCEPTS DELIVERY OF UAS AND TRAINS	b7E
Approval Date: Classification:		
Contents:		
	Precedence: ROUTINE Date: 01/18/2011	
		b6 b7С
	Synopsis: FBI Accepts Delivery of UAS and Trains Operators.	b7E
	Details: The investigating Agent attended course at graduating with SSA and Electronics Technicians forming the first Bureau class of certified unmanned aerial system ("UAS") pilots under the current joint VSU/FFOU program. During the class, the FBI took delivery of its The primary instructor was descriptive data. is a retired U.S. Air Force master sergeant forward air controller with extensive combat experience.	b6 b7C b7E b3 b7E

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	k
Descriptive Data:	
Reference	
Name Last:	Ŀ
First Race: W	k k
Sex: M Phone #:	
Miscellaneous -	
LEAD(s):	
Set Lead 1: (Info)	
OPERATIONAL TECHNOLOGY	
AT VSU, VA Read & clear.	
Set Lead 2: (Action)	
CIRG	•
· ·	
AT ASU, VA Training: Record training of SSA	_ k
and Electronics Technicians as qualified operators of	l h
UAS.	
Set Lead 3: (Info)	
CIRG	
AT ASU, VA	
Research & Development.	1
	ì

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Routing	b6
Drafted by:	ьо 67С
Approved by	

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Serial Number:	Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT 45 01/20/2011 ALL INFORMATION CONTAINED	
	07/02/2012 HEREIN IS UNCLASSIFIED 07/02/2012 DATE 12-31-2013 BY NSICG F54M93K42	
******	BAIL 12 31 2013 BI NSIGG ESEMSONEE	
Dotnilo		
Details Serial #:	45 Type: EC	
Document Title:	UAS.	b7E
Approval Date: Classification:	01/20/2011 SN	
Contents:		
	Precedence: ROUTINE Date: 01/20/2011	
	To: Operational Technology Attn: Video Surveillance Unit	ь6 ь7с
	From: CIRG SAS/ASB/FFOU Contact: SSA	
	Approved By:	
•		
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending) Title: UNMANNED AERIAL SYSTEMS;	
	BUREAU AIRCRAFT OPERATIONS Synopsis: UAS.	b7E
	Details: On 01/20/2011,	b 6
	see descriptive data, briefed personnel from	b7C
	FFOU, ASU, and VSU on unmanned aerial	b7E
·	Program managers from VSU and FFOU concurred that, while the air vehicle may offer interesting capabilities, further investigation of the product is not warranted at this time due to immaturity of the company and product along with continued barriers to access to the National Airspace System.	
	Descriptive Data:	
	Reference Name Last: First Race: W Sex: M Address(es) - House #: Street Name Street Suffix:	ь6 ь7с
	•	

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Unit: City: State Postal Code: Phone #: Miscellaneous		ь6 ь7с ь7Е
LEAD(s):		
Set Lead 1: (Info)		
OPERATIONAL TECHNOLOGY		
AT VSU, VA		
Read & clear.	,	
**		
Routing Drafted by: Approved by:		b6 b7С

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:	51	
Serialized:	03/04/2011 ALL INFORMATION CONTAINED	
	07/02/2012 HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K42	
Details Serial #:	51 Type: EC	
Document Title:	PROFICIENCY FLIGHTS AT TEVOC	b7E
Approval Date: Classification:	03/04/2011 SN	
Contents:		
	Precedence: ROUTINE Date: 03/04/2011	
	To: CIRG Attn: SSA Operational Technology Attn: SSA	ь6 ь7с
	From: CIRG SAS/ASB/FFOU Contact: SSA	
	Approved By:	
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending)	
	Title: UNMANNED AERIAL SYSTEMS; BUREAU AIRCRAFT OPERATIONS	
	Synopsis Proficiency Flights at TEVOC	b7E
,	Details: On 02/23/2011, VSU/FFOU conducted proficiency flight training in the restricted airspace above TEVOC at the FBI Academy using unmanned aerial system. Each participant, except logged time as both vehicle operator ("VO") and mission operator ("MO"). Flight times are listed below:	b6 b7C b7E
	SSA	b 6
	SSA ET ET ET	b7C b7E
	Each sortie involved a hand launch by the MO and a landing by the VO. The writer entered these missions into Professional Flight Management as flight strip number	b7E

LEAD(s):

Working Copy	b7E
Set Lead 1: (Info)	
CIRG	
AT ASU, VA	
Training: Read & clear.	
Set Lead 2: (Info)	
OPERATIONAL TECHNOLOGY	· ·
AT VSU, VA	
Read & clear.	
* *	
Routing Drafted by: Approved by:	b6 b7С

b6

b7C b7E

Filing and Security

Primary Case: 321D-IR-A7788

Case Title: (U//FOUO) FFOU UNMANNED

AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT

Serial Number: 52

Serialized: 03/10/2011 Initiated: 07/02/2012

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Details

Serial #: 52

Type: EC

Document Title:

(U) FORWARD WHITE PAPER TO PROVIDE BACKGROUND

Approval Date: 03

03/10/2011

Classification:

Contents:

Precedence: PRIORITY Date: 03/10/2011

To: Attn: SSA

From: Operational Technology

Traditional Technology Section/Video Surveillance Unit

Contact: SSA

Approved By:

Case ID #: 321D-IR-A7788 (Pending)

Title: (U) Unmanned Aircraft Systems (UAS)

Synopsis: (U) Forward White Paper to provide background information for the research, determination, and submission of the request for Export License under the International Traffic in Arms Regulation (ITAR), if necessary, for three Unmanned Aircraft Systems (UAS) owned and operated by the FBI.

Classified by: F76M17K45

Derived From FBI NSISCG-20090615

Declassify On: 20360310

Enclosure(s): (U) White Paper titled "ITAR for FBI UAS"

Details: (U) On 03/09/2011, UC ET to discuss unmanned aircraft systems (UAS) owned and operated by the Video Surveillance Unit (VSU) that currently possess an ITAR warning notice on the front cover of the Operators Manual.

(U) SSA provided background information on the ITAR export control laws. UC and ET discussed the UAS, the information that would most likely be shared with the foreign

nationals, the location, time, and the countries involved.

CREW-3041 11/7/2013 3:49 PM

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b7C

(U) The enclosed White Paper provides additional details to assist in the research, determination, and if necessary, submission of the request for an Export License under ITAR for conversations and sharing of information during meetings scheduled to occur from 03/31/2011 through 04/01/2011.

LEAD(s):

Set Lead 1: (Action)

AT WASHINGTON, DC

(U) Request transmittal of White Paper.

CC: VSU -VSU VSU CMU **

Routing

Drafted by: null

Approved by:

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:		
Serialized:	11/29/2011 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K4	4
Details Serial #:	82 Type: EC	
Document Title:	TRAINING,	
Approval Date: Classification:	11/29/2011 SN	
Contents:		
	Precedence: ROUTINE Date: 11/29/2011	
	To: Operational Technology Attn: SSA	
	CIRG Attn: ISA	
	Attn: SA	
	SA	
	From: CIRG SAS/ASB/FFOU	
	Contact: SSP	
	Approved By	
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending) 348C-IR-A7376 (Pending)	
	Title: UNMANNED AERIAL SYSTEMS;	
	FIELD FLIGHT OPERATIONS UNIT; BUREAU AIRCRAFT OPERATIONS	
	Synopsis: Training,	
	Reference: 321D-IR-A7788 Serial 81 319X-HQ-A1487710-CIRG Serial 398	
	Details: As described in the referenced Serials, the joint FFOU/VSU Unmanned Aerial System ("UAS") team will field an	
	operational UAS capability to during fiscal year 2012. This forms FFOU Goal #11 with Objective #1 to field a system to	
	and Objective #2 to train pilots from to operate the system. To achieve these goals, SAS	
	will attend manufacturer led	
	with travel days on SA is the designated alternate. ISA will	
	also attend.	
	The training will be conducted by This class	
	will	
	cover	

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	•
both already UAS pilots in command,	
travel on and be present for training from to conduct transition training.	ь70 ET ь71
will be present during the entire training peri- assist the students and instructors.	
azz-z- die poudond und imperacett.	ь6
	ъ70
Participants should fly into Los Angeles Internation	b7i
Airport ("LAX"). ET will rent a large sport utivehicle to transport equipment and participants. No one	
authorized to rent a car. Participants should coordinate	airline
reservations with ET to minimize delays. He wil reserve hotel rooms for all participants in order to ens	ure that
everyone is at the same hotel. During overnight temperatures may fall into the thirties and daytime temp	
may be in the 30s or 40s. Almost all of the training will conducted outside so participants should bring appropria	
clothing and footwear. Some training will be conducted a	
ASB authorizes the above listed personnel to travel to	
and incur expenses needed for this even No other use of the TR# is authorized	
case number 348C-IR-7376. When filling out your SF-1012' FD-540, use Program: Training S4 / Subprogram: CIRG-Spec	
Aviation SE. Email or fax copies of FD-540/SF-1012 to MA	
L	
LEAD(s):	
Set Lead 1: (Info)	
OPERATIONAL TECHNOLOGY	
AT VSU, VA	
Read & clear.	,
Set Lead 2: (Action)	
CIRG	
AT FFOU, VA	
ISA Attend training as described above.	ъ6
Set Lead 3: (Action)	b70 b71
Set pead 3: (ACCION)	B/1
AT	
SA and SA Attend training as described above.	
noona crammy as asserbed above.	

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Routing Drafted by:			,	b6 b7С
Approved by:				270

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Filing and Security Primary Case:	AERIAL	JO) FFOU UNMANNED SYSTEMS - FFOÜ ED AIRCRAFT
Serial Number:	84	
	11/22/2011	
		INFORMATION CONTAINED
**************************************	neri	IN IS UNCLASSIFIED 12-31-2013 BY NSICG F54M93K42
Details		
Serial #:	84 Type: EC	
Document Title:	REQUEST FOR CANDIDATES TO ATTEND	b7
Approval Date: Classification:	·	
Contents:		
	Precedence: DEADLINE 12/15/2011 Date: 11/22/2	011
	To: CIRG Attn: A/SC UC SSA	ь6 ь7
	From: Operational Technology Traditional Technology Section/Video Surveill Contact:	ance Unit
	Approved By:	
	Drafted By:	
	Case ID #: 321D-IR-A7788	
	Title: Unmanned Aerial Systems; Field Flight Operations Unit; Bureau Aircraft Operations	
	Synopsis: Request for candidates to attend initial Unmanned Aerial Vehicle	Training in b7
	Details: The Video Surveillance Unit (VSU) Un Vehicle's (UAV) team is currently composed of UAV pilots from VSU and certified UAV Due to the recent increase in UAV mission request (FY 2011) and the forecasted new mission years, VSU has budgeted funding to train an a UAV pilots in FY 2012.	certified b7 Pilot from CIRG. uests in the past s in the upcoming
	Currently, VSU has active Certificates of Authorization (COA) with several more await from the Federal Aviation Administration (FAA awaiting final approval for submission to the approved, these COAs will require the current to these locations to provide UAV support to Offices. Since the current team is composed of an additional will be required to these requests.	ting final approval), and several more FAA. Once UAV team to travel t <u>he requesting Fiel</u> d

Working Copy Currently FBI UAV Pilots are required to be certified pilots (Private Pilot) and hold a current Class 2 Medical Certificate. Observers are required to have passed the Private Pilot Knowledge test and hold a current Class 2 Medical Certificate. Qualifications for candidates to the Initial UAV Training are at a minimum, a current Class 2 Medical Certificate and enrollment in an approved Private Pilot Program. Upon completion of the Initial UAV Training, the certified (Private Pilot) UAV Pilot can act as Pilot in Command of the UAVs. The non-rated manned aircraft pilot can only act as Observers or Mission Operator until completion of the Private Pilot certificate. Inasmuch as CIRG's Field Flight Operations Unit (FFOU) has actively supported the UAV Program in providing these services to the Field, and has actively participated in UAV missions, the VSU is requesting FFOU to identify two qualified candidates to attend Initial UAV training to be conducted in The FFOU and VSU management have agreed that upon successful completion of the UAV training and certification of the candidates provided by FFOU, these candidates will support the joint VSU/FFOU UAV Program by actively participating in UAV deployments In addition, the FFOU personnel selected will incur travel costs, lodging and per diem for the UAV Training. Tuition cost will be borne by the VSU. LEAD(s): Set Lead 1: (Action) CIRG AT MANASSAS, VA Concur with the VSU's request and identify two candidates to attend Initial UAV Training in OTERF

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Primary Case: 321D-IR-A7788

Case Title: (U//FOUO) FFOU UNMANNED

AERIAL SYSTEMS - FFOU

UNMANNED AIRCRAFT

Serial Number: 86

Serialized: 01/01/2012

Initiated: 07/02/2012

Details

Serial #: 86

Type: OTHER

Document Title: RECENT RAPID ADVANCEMENTS OF UNMANNED AIRCRAFT SYSTEMS (UAS)

Approval Date: 01/01/2012

Classification: SN

Contents: No Content Available

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K42

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Filing and Security

Primary Case: 321D-IR-A7788

Case Title: (U//FOUO) FFOU UNMANNED

AERIAL SYSTEMS - FFOU

UNMANNED AIRCRAFT

Serial Number: 88

Serialized: 12/12/2011

Initiated: 07/02/2012

Details

Serial #: 88

Type: OTHER

Document Title: LA TIMES ARTICLE

Approval Date: 12/12/2011

Classification: SN

Contents: No Content Available

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K42

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT
Serial Number:	89
Serialized:	02/06/2012 ALL INFORMATION CONTAINED
	07/02/2012 HEREIN IS UNCLASSIFIED DATE 12-31-2013 BY NSICG F54M93K4
Details	
Serial #:	89 Type: EC
Document Title:	TO NOTIFY OF TRAVEL TO ATTEND CONFERENCE AND
Approval Date: Classification:	
Contents:	
	Precedence: ROUTINE 8Date: 02/06/2012 To: From: CIRG SAS/ASB/FFOU Contact: SSA Approved By: Drafted By:
	Case ID #: 321D-IR-A7788 (Pending) Title: UNMANNED AERIAL SYSTEMS; FIELD FLIGHT OPERATIONS UNIT; BUREAU AIRCRAFT OPERATIONS
	Synopsis: To notify of travel to attend conference and deliver presentation. Administrative: Per telcal on 02/06/2012 between SSA and LOA
	Details: Recent rapid advances in unmanned aircraft aerial systems ("UAS") hold great promise to enhance law enforcement capabilities. To survey these opportunities, The writer has been invited to deliver a presentation on legal challenges to UAS
	implementation in the United States' National Airspace System. The presentation and conference will be entirely unclassified. The writer's primary point of contact is Contact with other law enforcement officers is anticipated.
	The FBI's UAS program is a joint venture between the CIRG's Field Flight Operations Unit and Operational Technology's Video

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Surveillance Unit. The writer is the FFOU program manager for UAS operations.	
LEAD(s):	
Set Lead 1: (Info)	
	b7E
Read & clear.	
**	
Routing Drafted by:	b6 b7С

Objective one was to work with the Video Surveillance

Objective three was to train two personnel from

Unit ("VSU") to assign a HAS

when

and type of air vehicles as needed.

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This was satisfied on

VSU will adjust the quantity

took possession of

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Agents gradefrom a training course conducted by	when b6 duated b7
privileges in SA will remain a copi	atform er and have PIC
Objective two was to certify as a UAS trainer through This objective should be reviewed based on the texperience during the class described above. It is the woopinion that additional training by is problem.	
warranted given the high cost and likelihood that further training will not significantly enhance recipients' abilinstruct on the system. Further discussions will occur be FFOU and VSU to resolve whether or not the goal has been satisfied.	r ities to etween
may dispatch and fly UAS missions using the procedures specified for manned aircraft in the Bureau Ar Regulations ("BAR")	viationb7
Both of these requirements must be satistic conduct a field based UAS mission. These missions may be only within existing Certificate of Authorization or Wair ("COA") airspace or in restricted areas with approval of controlling authority, usually range control is authorized to directly contact the FAA to renew or modification or to create new ones. UAS flights must be in Professional Flight Management and recorded on the more Excel spreadsheet.	flown ver the not Y entered
LEAD(s):	
Set Lead 1: (Info)	
OPERATIONAL TECHNOLOGY	
AT VSU, VA	
Read & clear.	
Set Lead 2: (Action)	
CIRG	
AT ASU, VA	
Update pilot training records to reflect SAs status as PICs in the	b6 b7 b7
Set Lead 3: (Info)	
	ь7

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AT	b7E
may dispatch and fly UAS missions using the procedures specified for manned aircraft in the BAR in existing	
COA airspace or in restricted areas with approval of the controlling authority. is not authorized to directly contact the FAA. UAS flights must be entered in Professional Flight Management and recorded on the monthly Excel spreadsheet.	
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Annual Control of the	·
Routing Drafted by:	ь6 ь7с

Approved by:

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Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:		
	03/29/2012	
	07/02/2012 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 01-02-2014 BY NSICG F54M93K42	
	•	
Details Serial #:	100 Type: EC	
Document Title:	GUIDANCE FROM FAA UNMANNED AIRCRAFT PROGRAM OFFICE.	
Approval Date: Classification:		
Contents:		
	Precedence: ROUTINE Date: 03/29/2012	
	To: Operational Technology Attn: Video Surveillance Unit	
	From: CIRG SAS/ASB/FFOU Contact: SSA	b 6
	Approved By	ъ7С
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending)	
	Title: UNMANNED AERIAL SYSTEMS; FIELD FLIGHT OPERATIONS UNIT; BUREAU AIRCRAFT OPERATIONS	
	Synopsis: Guidance from FAA Unmanned Aircraft Program Office.	
	Details: On 03/29/2012, per telcal, the investigating Agent discussed unmanned aerial system ("UAS") training issues with Unmanned Aircraft	
	Systems,	
	reported that the FBI could conduct internal UAS training and pilot certification without instructors first attending manufacturer provided training. The only prerequisite to such training is that all attendees be licensed pilots. The investigating Agent invited to send an FAA employee to attend the first such in-service.	b6 b7С
	Following the conversation, the investigating Agent contacted ET at the Video Surveillance Unit to recommend that approximately in VSU funds currently being held for a train-the-trainer class be reprogrammed for the purchase of additional UAS system components (most likely air vehicles). ET agreed to pursue implementing this.	b6 b7C b7E
	In accordance with the FAA's opinion, Aviation Surveillance Branch will initiate planning to conduct in-service training for new UAS pilots. The target date for such training is the first quarter of fiscal year 2013.	

LEAD(s):			
Set Lead 1:	(Info)		
OPERATIONAL S			
	LECHNOLOGY		
AT VSU, VA			
Read & clear	•		
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Filing and Security Primary Case:	321D-IR-A7788	Case Title:	(U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:	101			
	03/29/2012		ALL INFORMATION CONTAINED	
	07/02/2012		HEREIN IS UNCLASSIFIED	
**************************************	, ,		DATE 01-02-2014 BY NSICG F54M93K42	
Details				
Serial #:	101	Type:	OUTLET	
Document Title:	RE			b7E
Approval Date: Classification:	· ·			
Contents:	March 29, 2012 Federal Aviation Administrat 800 Independence Avenue SW Washington, DC 20591	ion		
	Attention: Unmanned Aircraft	System Of	fice	
	Re		¬ ·	b6
	Dear			b70 b7Е
				D/E
	The Federal Bureau of Invest airworthiness of Small Unmanned Aircraft Systaircraft fleet pursuant to e in the acquisition and maintevaluated the utilizatailored UAS airworthiness conto be airworthy for our in	em. The FB stablished enance of ing our es ertificati	I operates a manned policies for airworthiness the aircraft. We have tablished policies and our on criteria and found	b7E
	Proponent: Federal Bureau of Response Group, Surveillance Operations Unit, Attn: Super	and Aviat	ion Section, Field Flight	b 6
	Aircraft Type: Small Unmanned Aircraft Syst	em.		b7С b7Е
	Manufacturer:			b7E
_	Design Standards:			
			,	
·		tion and phed to ens facturing tance testers listed	re-flight test based upon ure the operation of the standards known and ing the system was flown in the UAS Operator's demonstrated. At the pted only after a	b7 E

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Continuing Airworthiness Standards: The FBI follows continuing airworthiness procedures for inspection and maintenance as detailed in the above described military SUAS manual. Operator level maintenance is performed in the field while all higher level maintenance is performed by Design Criteria and Standards: Design standards for the system and its operator's manuals are accomplished by and accepted by the FBI. The system and the FBI's operation of it complies with all applicable provisions in	b7 E
Verifying Safety-of-Flight and Continuous Airworthiness: This Airworthiness Statement is issued with the full understanding that each opportunity to operate the UAS requires a thorough visual and system check of the system to ensure continued airworthiness. The pre-flight checklist provided in the Operator's Manual is thorough and complete. The FBI uses and complies with this checklist for each operation. Risk Mitigation Standards:	Ь7Е
	b7I
Sincerely,	ъ6

Working Copy		—b7Е
Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Serial Number:		
	04/10/2012	
	07/02/2012 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 01-02-2014 BY NSICG F54M93K42	
Details		
Serial #:	102 Type: EC	
Document Title:	(U) UAS TEST SITE REQUEST FOR COMMENTS, 04/10/2012.	
Approval Date: Classification:	, ,	
Contents:		
	Precedence: ROUTINE Date: 04/10/2012	
	To: Operational Technology Attn: Video Surveillance Unit	
	From: CIRG SAS/ASB/FFOU Contact: SSA	b 6
	Approved By	b7C
	Drafted By:	
	Case ID #: 321D-IR-A7788 (Pending)	
	Title: UNMANNED AERIAL SYSTEMS; FIELD FLIGHT OPERATIONS UNIT; BUREAU AIRCRAFT OPERATIONS	
	Synopsis: (U) UAS Test Site Request for Comments, 04/10/2012.	
	Details: (U) On 04/10/2012, the investigating Agent participated in a web based seminar hosted by the Federal Aviation Administration ("FAA"). The topic of the presentation was the solicitation of comments on proposed unmanned aerial system ("UAS") test ranges for use in evaluating integration of UASs into the National Airspace System. The conference was open to the public and journalists reportedly participated. As all statements were on the record, the investigating Agent did not speak.	
	(U) FAA employees were the presenters. The main topic was the review of the FAA Modernization and Reform Act of 2012 ("Act") and the current notice of proposed rule making concerning the test ranges and the associated pending request for comment. This requirement was included in the Act by Congress. The FAA shall determine the location of test ranges which shall be operational within FAA-2012-0252 is the Federal Register document number for the requirements concerning test ranges. The ranges are intended to test a variety of UAS capabilities such as conventional takeoff and landing, high speed flight, maritime capability, operations at very high altitude, and evaluation of dissimilar aircraft in multiple altitude structures. Geographic and climatic diversity is a goal for the test ranges. The FAA will not	b6 b7С b7Е

fund

the operation of these test ranges. Each user wanting to operate a range must demonstrate ability and experience to do so. Comments are due 05/08/2012. Test site selection will be published in December, 2012. All comments will be posted to www.regulations.gov or on the FAA website. Additional information is provided at www.faa.gov/about/initiatives/uas/.

(U) Relevant questions and answers are discussed below. One questioner asked about whether the test ranges would allow both civil and public operations. The FAA responded that both civil and public flight operations would be allowed. The tenor of the answers to various questions made clear that the test ranges are meant for use in research and development and not for operational use. The program is intended to allow the FAA to evaluate system safety, aircraft certification, command and control links, control station layout, sense and avoid, environmental impact, and human factors. The request for comments is intended to help define the range selection criteria. No sites have yet been chosen. The funding of the test site will be the responsibility of the proponent. The FAA would not charge for test range use. The question of whether the operator of the test range could assess fees was not answered.

(U//LES) FFOU recommends that the FBI not apply to operate a UAS test range. Our range at Quantico meets our existing and anticipated requirements. Since test ranges would be open to many entities, operating one would quickly become burdensome. The FFOU will continue to monitor the establishment of test ranges with an eye toward conducting training and operational flights in these locations when they are created. The likelihood that significant surveillance targets will present in one of these ranges will probably be low because these ranges will almost certainly be established far from urban areas.

Set Lead 1: (Info)
PERATIONAL TECHNOLOGY
AT VSU, VA
(U) Read & clear.
t *
Routing Drafted by:
Approved by:

LEAD(s):

b6 b7C

Working Copy		b7E
Filing and Security Primary Case:	321D-IR-A7788 Case Title: (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
	118 06/13/2012 ALL INFORMATION CONTAINED 07/02/2012 HEREIN IS UNCLASSIFIED DATE 01-02-2014 BY NSICG F54M93K42	
Details Serial #:	118 Type: EMAIL	
Document Title: Approval Date: Classification:		b7E
Contents:		ъ6 ъ7С
	Thank you for sending me the information on the Unmanned Aerial System. I have had a chance to discuss it with my counterparts at the Engineering Research Facility. We believe that offers performance advantages over although we have not flown is expected to enter FBI service offers the following capabilities:	b7E
	CITC TOTTOWING Capabilities.	b3 b7E

Working Copy	b7E
	b3 b7E
Procurement of is already underway. The joint FFOU/VSU UAS team looks forward to flying in support	b7 E
Sincerely,	
Field Flight Operations Unit Program Manager (CTRG/SAS/ASB/FFOU) (desk) (BlackBerry)	ъ6 ъ7с

Classification: UNCLASSIFIED

FD-1057 (Rev. 5-8-10)

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FEDERAL BUREAU OF INVESTIGATION

Electronic Communication

Title: (U) Unmanned Aerial System Pilot Training, FBI	Date:	07/13/2012
Academy, Quantico.		
To:		
From: CRIT INCIDENT RESPONSE Contact:		
Approved By: A/U		•
Drafted By:		
Case ID #: 321D-IR-A7788 / (U) FFOU UNMANNED AIR UNMANNED AIRCRAFT	CRAFT -	FFOU
348C-IR-A7374 (U) ASU TRAINING MATT MATTERS	ERS - AS	U TRAINING
Synopsis: (U) Announcement of Unmanned Aerial System be held at the FBI Academy at Quantico from	n Pilot I	raining to
Details:		
The joint Field Flight Operations Unit' ("FFOU") a Surveillance Unit ("VSU") unmanned aerial system ("Unit conduct pilot UAS pilot training at the FBI Academy of This communication describes the selection process for the course. All candidates must	AS") team From applica	tion and
Virtual Academy.		

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Title: (U) Unmanned Aerial System Pilot Training,	b7E
FBI Academy, Quantico. Re: 321D-IR-A7788, 07/13/2012	
The FBI currently operates	b 3
	b7E
Over the last few years, the FBI has employed UASs on a variety of	
investigative matters, including two investigations of top ten	
fugitives. While the UAS program began at VSU, it rapidly became a	
joint venture between VSU and FFOU. Currently, both partners in the team are working to build a robust field based UAS capability. In	
fiscal year 2012, a system was fielded In fiscal	b7E
year 2013 will acquire equipment and training. It is also will	
begin to use UAS technology.	
To facilitate the planned expansion of UAS capabilities, the UAS	
team will hold in-service training at the FBI Academy	b7E
While the curriculum is still under development,	
participants can be assured that most of the time will involve actual hands on flying. The schedule should closely resemble the outline	
shown below:	
• Monday - Legal, theory, assembly, and maintenance	b7E
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Title: (U)	Unmanned Aerial System Pilot Training, FBI Academy, Quantico.
Re: 321D-II	R-A7788, 07/13/2012
• Wedness • Thursd	y - Basic flight operations (TEVOC) day - Advanced flight operations, Night Operations (TEVOC) ay - Maritime operations - Written test, oral exam, checkride
Travel days	will be Sunday and Saturday.
a strong in	al candidate is a current FBI pilot in command ("PIC") with terest in computers and technology. The minimum ons for attendance are:
• FAA Pr • FAA In	ecial Agent or Investigative Specialist Aerial ivate Pilot's License (Commercial or ATP strongly preferred) strument Rating cond Class Medical
take the 20 program. U	tes who are not currently FBI pilots will be required to 12 FBI Pilot written test and enroll in the FBI aviation AS pilots are not required to have experience with FBI raft and are not required to remain current in manned
	Tactical experience is desirable but not
	Like all FBI pilots, graduates of this course can expect to anymore in the United States to support high priority ons.
	rent fielding plan dictates priorities for selection.
Accordingly	, slots are reserved as follows:

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Title: (U) Unmanned Aerial System Pilot Training, 10/15/2012 through 10/19/2012, FBI Academy, Quantico.

Re: 321D-IR-A7788, 07/13/2012

Two slots will be filled by representatives of the Federal Aviation Administration and one slot will be taken by a foreign police officer pilot.

Candidates should apply through Virtual Academy by requesting
access to "Unmanned Aerial System Pilot Training." This should be done
as soon as possible. FFOU will review the applicants and make
selections Candidates who are not already FBI
pilots will be required to complete an FD-586 and supply photocopies of
their pilot's license and medical certificate prior to selection.
Questions should be directed to SSA of FFOU.

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Electronic Communication

Title: (U) Registration of Participants Date: 08/07/2012 to UAS Course	b7E
To:	b6 b7C b7E
From: Contact:	
Approved By: A/SSA	
Drafted By: Case ID #: 321D-IR-A7788 (U) FFOU UNMANNED AIRCRAFT - FFOU	
UNMANNED AIRCRAFT	
Synopsis: (U) has selected SA's to participate in captioned course.	b6 b7C b7E
Reference: 321D-IR-A7788 Serial 122	
Details:	
The supervisor and Aviation Coordinator have designated	b6
SA's to	b7C b7E
participate in captioned course during the period of Each participant has registered in Virtual	
Academy as requested by CIRG SSA	

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FD-1036 (Rev. 10-16-2009)

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Import Form

Form Type: OTHER	Date: 02/04/2013	
Title: (U) Unmanned Summary		b7E
Approved By: UC		ь6 ь7с
Drafted By:		
	FFOU UNMANNED AIRCRAFT - FFOU ANNED AIRCRAFT	
Synopsis: (U) Unmanned Summar	су	b7E
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Inmanned_Summary
Sent: Sunday, February 03, 2013 9:46 AM (IR)(FBI);
Cc: Subject: Unmanned Summary
ALCON:
FOR RECORD IR-7788 and substantive
UNCLAS and LES
Outstanding mission.
Supervisory Special Agent Pilot Aviation R&D Program Manager
(CIRG/SAS/ASU) Desk Mobile

FD-1057 (Rev. 5-8-10)

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FEDERAL BUREAU OF INVESTIGATION

Electronic Communication

Title: (U) After Action Review of Transition School	f Initial	UAS	Date:	03/18/2013
To:				
From: CRIT INCIDENT RESPONSE IR-ASU Contact:				
Approved By: UC				
	J) FFOU UN NMANNED AI	MANNED AIRCR RCRAFT	AFT - F	FOU
TAW FINEOD	CEMENT SEN	1CTT17F		
This information is the property of tribal, or local government law e Further distribution without FBI should be taken to ensure this in manner that precludes unauthorized a	f the FBI and the forcement authorizate formation :	and may be di officials w ion is proh	ith a ne ibited.	eed-to-know. Precautions
Synopsis: (U) Provides lessons I Unmanned Aerial System Transition				
Reference: 321D-IR-A7788 Serial	142			

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321D-IR-A7788 Serial 143 321D-IR-A7788 Serial 144

Title: (U) After Action Review of Initial UAS Transition School

Re: 321D-IR-A7788, 03/18/2013

	•
Enclosure(s): Enclosed are the following items: 1. (U) Scanned flight strips 2. (U) 00 - FBI Unmanned Aerial System Transition 3. (U) 01 FBI System Description and Limitations 4. (U) 02 FBI Operator Interface Part 1 5. (U) 03 FBI Toolbar for 6. (U) 04 FBI Electronic Logbook - Tracker - Screener DDL 7. (U) 05 FBI Multiple UAS in Proximity 8. (U) 06 FBI In Flight Intel Techniques 9. (U) 07 FBI Emergency Procedures 10. (U) 08 FBI Law Enforcement Mission Planning 11. (U) 09 FBI Thursday and Friday range restrictions	b7E
From the investigating Agent and Electronics Technician of Operational Technology Division's Video Surveillance Unit held the FBI's first internal unmanned aerial system ("UAS") transition school. The course was held at the FBI Academy and was listed in Virtual Academy as Unmanned Aerial System Pilot Training This communication describes the training and provides lessons learned that will be applicable to future iterations of the course. It is also intended to serve as a guide to preparing the next evolution.	b6 b7C b7E
Student Selection	
Students were selected by the Field Flight Operations Unit ("FFOU") based on expected operational employment of UAS. pilots were chosen from the National Surveillance Response Unit ("NSRU"). were Special Agent Pilots in Command and was an instrument rated Investigative Specialist Aerial Copilot. In addition, the incoming FFOU program manager for UAS operations attended the training. An additional ISA from FFOU and a pilot from the Hostage Rescue Team ("HRT") attended and participated.	b7E
Facilities	

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Title: (U) After Action Review of Initial UAS Transition School

	of the Training Division authorized the use of
a classroom	at the FBI
-	the Tactical Emergency Vehicle Operations Course
•	the use of the TEVOC control tower as a base for
	arine Corps Base Quantico's Range Control approved and assigned training areas and range
= =	out the week. See the referenced Serials for
_	cion provided by Range Control.
j	
Curriculum	
The curriculum fo	or the course was based on the manufacturer created
PowerPoint slides or:	iginally developed for
	Irrelevant material, such as artillery
adjustment procedures	s, was deleted. The slides actually used are
included as attachmen	nts to this document. The course was a mixture of
lecture, practical ex	kercises in the classroom, and actual flying. Each
lecture, practical ex student's training pa	acket included after action reviews of previous FBI
lecture, practical ex student's training pa UAS operations, examp	acket included after action reviews of previous FBI ples of Certificates of Authorization for UAS
lecture, practical ex student's training pa UAS operations, examp flights, and the FAA	acket included after action reviews of previous FBI ples of Certificates of Authorization for UAS 's Interim Operational Approval Guidance 08-01.
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lecture, practical exstudent's training pastudent's training pastudent was appearations, example flights, and the FAAT Each student was also notebook, pens, and appearation of the classroom syllable. 1. FBI Unmanned Appearation of the classroom syllable.	acket included after action reviews of previous FBI cles of Certificates of Authorization for UAS 's Interim Operational Approval Guidance 08-01. So provided with a sectional chart, small field a chemical light for night safety. As contained the following modules: Aerial System Transition (introduction) otion and Limitations Interface

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Title: (U) After Action Review of Initial UAS Transition School

Re: 321D-IR-A7788, 03/18/2013

5.	Electronic	Logbook,	Tracker,	Screener

- 6. Multiple UAS in close proximity
- 7. In Flight Intelligence Techniques
- 8. Emergency Procedures
- 9. Law Enforcement Mission Planning

The flight syllabus contained the following training missions:

Flight 1 - Basic Flight Operations

Flight 2 - Intelligence Gathering Techniques

Flight 3 - Emergency Procedures

Flight 4 - Night Operations

Flight 5 - Beyond line of site and handoff operations

Flight 6 - Checkride

Each crew performed each flight twice so that each participant received a chance to perform both vehicle operator and mission operator duties. Each student also studied and presented one of the after action reviews. Flight 6, the checkride, constituted the final examination.

Flight Records

All flights were entered into Bureau Aircraft Operations. The actual paper flight records were also scanned and attached to this document. Flight hours by air vehicle and date are shown below:

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Title: (U) After Action Review of Initial UAS Transition School Re: 321D-IR-A7788, 03/18/2013	
See BAO for more information about individual flights. Most flight records contained more than one takeoff and landing. Total time in the	
air was Due to the nature of UAS training, very little time	
is actually spent in the air as simply flying the air vehicle has little training benefit. Most learning occurs during system setup,	
mission planning, launch, and recovery.	
Incidents	
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Title: (U) After Action Review of Initial UAS Transition School

Re:	321D-IR-A7788,	03/18/2013

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Title: (U) After Action Review of Initial UAS Transition School

Re:	321D-IR-A7788,	03/18/2013
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Certification

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Title: (U) After Action Review of Initial UAS Transition School Re: 321D-IR-A7788, 03/18/2013
Each graduate received the following logbook endorsement:
I certify that, holder of certificate, has fulfilled the training requirements of FAA Interim Operational Approval Guidance 08-01, March 13, 2008, § 9.1.1.4, requiring that Unmanned Aerial System ("UAS") pilots who are also rated pilots have additional training in all specific details of the UAS being operated including normal, abnormal, and emergency procedures. This included manufacturer specific training, demonstrated proficiency, and testing in the UAS being operated. He has received the FBI required training and demonstrated the required proficiency in the operation of the
The endorsement was recorded as training in BAO and uploaded to each airman's record in BAO.
Lessons Learned
The class brought forth the following lessons learned:
1. Limit class to only four students - a ratio of two instructors to two students is ideal. Without four students, handoffs can not be practiced but more than four students creates too much idle time.
2. Limit class to only one airframe. Initially, differences was to be included in the curriculum but did not allow for it. differences and amphibious operations should be add on courses.

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3. Some students were hampered by weak computer skills. In addition to

Title: (U) After Action Review of Initial UAS Transition School

Re: 321D-IR-A7788, 03/18/2013

pilot ratings and surveillance experience, students need strong Windows based computer literacy. Strong computer skills should be made a prerequisite for future students.

Conclusion

The conduct of this class validated the ability of FBI personnel to conduct inhouse UAS transition training and resulted in substantial cost savings over vendor provided training. The facilities at Quantico proved entirely adequate. It is recommended that additional UAS pilots be trained as resources permit.

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ME: Medical Evacuation	SV: Surveillance	TR-E: Transport - Executive		
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ME: Medical Evacuation BAO#	SV: Surveillance FUEL: Galle	TR-E: Transport - Executive	

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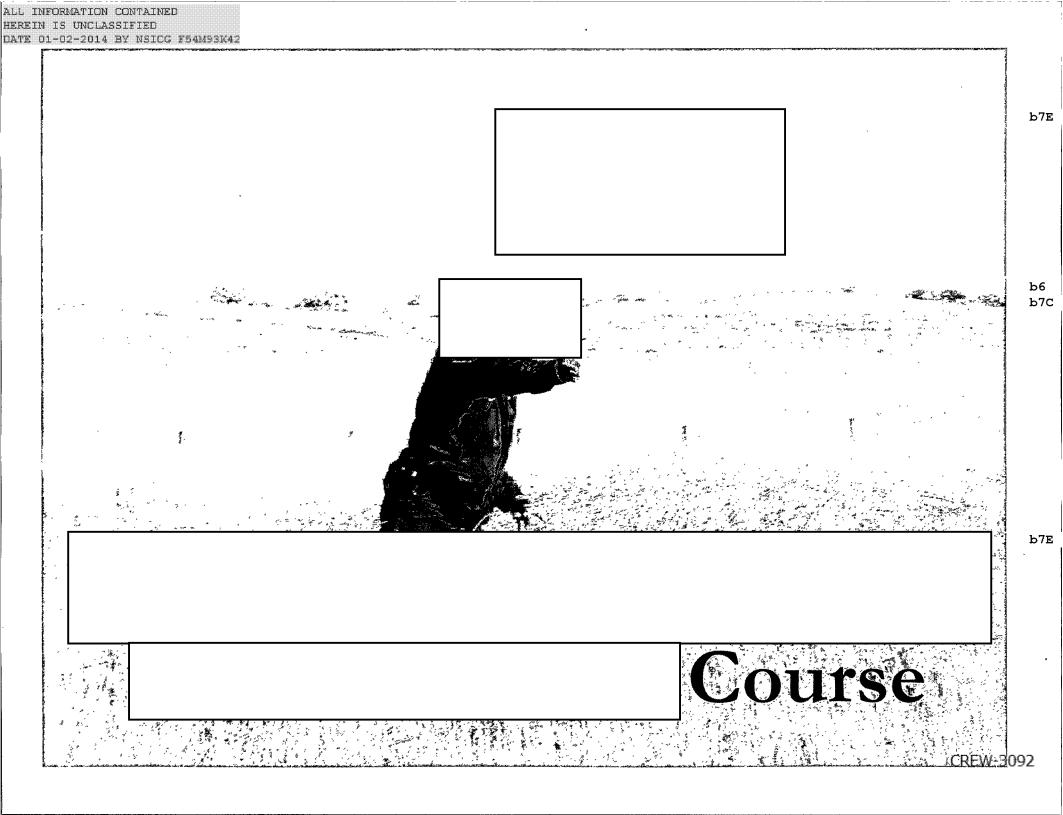
b7C b7E

BUREAU FLIGHT STRIP

FLOWN RY DIVISION: IR	EFITTING DIVISION: IR DIV	PROSE*: QURV EUEH, 3210 T	R 17788							
FLOWN BY DIVISION: IR BENEFITTING DIVISION: IR PURPOSE*: SURV FILE#: 3210-IR - A7788										
GROUND TEAM: 🖂 AGENT 📡		DATE:	HOBBS:							
FLIGHT HOURS: FLIR-F	MENT SCORE:	STOP:								
ROUTE:		START:								
			TOTAL:							
CREW:			- E							
1	FLIGHT PIC SIC TNG NIG	GHT ACT SIM DAY DA'								
PASSENGERS:	PASSENGERS:									
FIRST) NAME OAST NAME COMMENTS EMPLOYEE? (Y/N)										
COMMENTS:										
D'IDDOCE.										
PURPOSE: CC: Command and Control	MX: Maintenance/Test Flight	TO: Tactical Operations	TR-NE: Transport – Non-Executive							
CR: Communications Relay	PH: Photography	TN: Training/Proficiency/Evaluation	UO: Undercover Operations							
ME: Medical Evacuation	SV: Surveillance	TR-E: Transport - Executive	or ondercover operations							
BAO#		əns/ \$	<u>.</u>							

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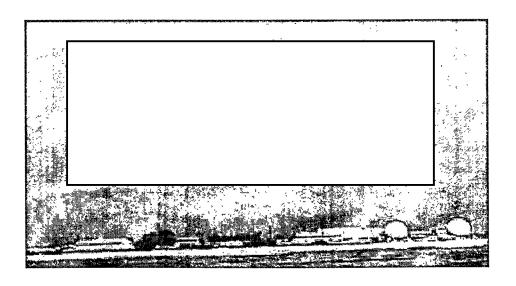
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LAW ENFORCEMENT SENSITIVE





Course Introduction







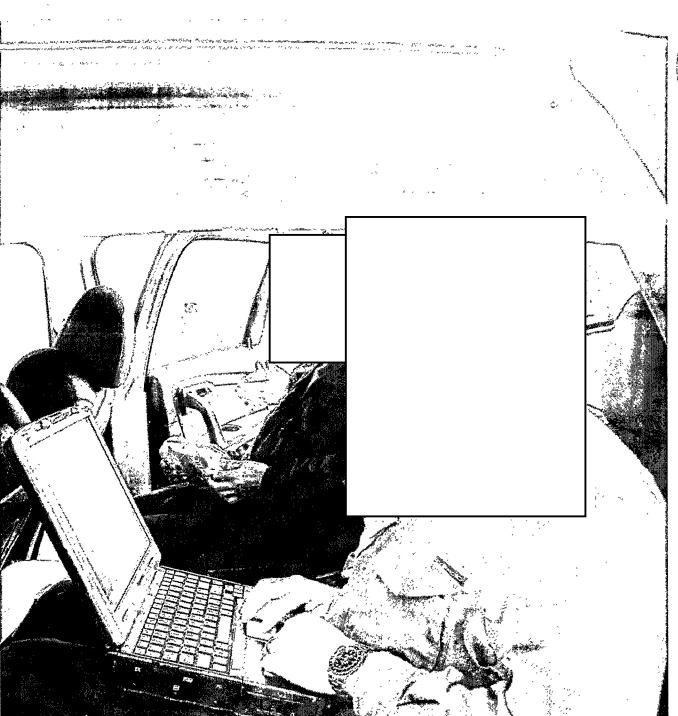
Special Thanks To:

Interim Operational Approval Guidance 08-01



Unmanned Aircraft Systems Operations in the U. S. National Airspace System







b6 b7C

March 2013



COA / ECOA & Airspace Planning









- FBI Special Agent Pilot or Investigative Specialist Aerial
- FAA Private, Commercial, or ATP
- FAA Instrument Rating
- FAA Class 2 Medical



Pilot License Required



- Class A, C, D, and E airspace.
- IFR (FAA instrument rating required).
- Night.
- Joint use or public airfields.

- Beyond line of sight.
- At any time the FAA has determined the need based on the UAS' characteristics, mission profile, or other operational parameters

See FAA Interim Operational Approval Guidance 08-01





Prerequisites drive assumptions.



Aeronautical Knowledge:



- Aircraft structures
- Principles of flight
- Aerodynamics of flight
- Flight controls
- Aircraft systems
- Flight instruments
- Aircraft Performance

- Weather theory
- Aviation Wx Services
- Airspace
- Navigation
- Aeromedical Factors
- Aeronautical Decision making



Investigative Knowledge



- DIOG
- BAR
- ELSUR

- FBI encrypted radios
- Downlink theory
- Thermal Imaging, Cameras, Lasers
- Goals of physical surveillance
- Tactical operations
- FBI Deadly Force Policy

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Because you know this: This course is half the length of the military course



- Artillery adjustment
- Multiple UAS operations
- Relay operations
- Encrypted GPS
- Military maintenance procedures
- Simulator
- Chat between ground stations
- Mobile Ops



Course Introduction





Facilities

Medical / Safety

Transportation

Meals

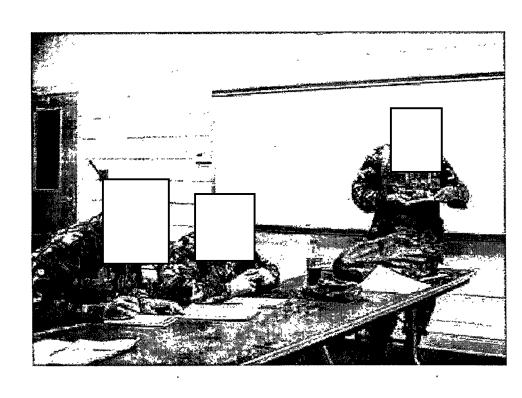
■ Water

Communications

Operator manual

Student handouts

Operator Checklist



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March 2013







- Enter flight times in your personal logbook.
- BAO will be entered for you during the course.
 - Flights
 - Training



Graduation Requirements



- All tests are performance based
- Memorize
 - Limitations
 - Emergency Procedures
- All else is open book / open checklist





Manuals





1.

System Description

- System Limitations
- •
- Batteries and Chargers
- Field Repair Kit
- System Sustainment

. --





- 2. System Assembly and Disassembly
 - Assembly
 - Assembly
 - Disassembly
 - Disassembly
 - Universal Battery Charging (UBC) Procedure





- 3. Operator Interface
 - Controller Functions
 - Hand Controller Buttons
 - Displays
 - Warning Displays





■ 4. Software Tools

- Electronic Logbook
- Tracker and Screener
- Range and Bearing Tool
- Still Capture Tool





■ 5. Basic Flight Operations

- Pre-flight Procedures
- Launch
- Flying the Mission
- · Landing, Recovery and Inspection
- Post-flight Procedures





■ 6. Mission Planning and Airspace

Management

- · Basic Mission Planning
- · GPS Degradation or Failure





- 7. Advanced Operations
 - Handoff Procedures



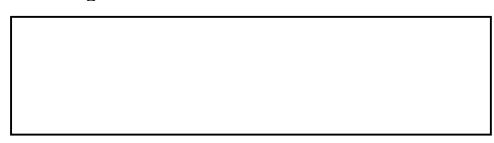


- 9. Inspections, Troubleshooting & Operator Maintenance
 - Field repair Kit (FRK)
 - Troubleshooting
 - Operator Maintenance
 - Maintenance





- 10. Emergency Procedures
 - · Loss of Link
 - GPS Failure
 - Structural or Flight Control Failure
 - Extreme Low Air Vehicle Battery
 - Propulsion Failure







■ 10. Emergency Procedures cont.

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Range Briefing





UAS Frequencies





Range Restrictions

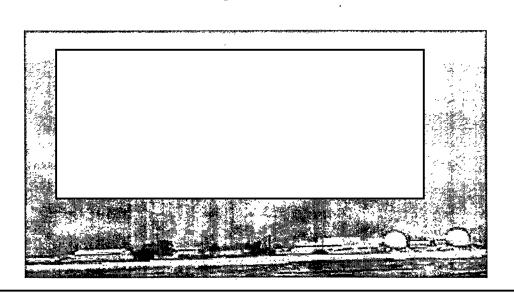
b71



Operator



Interface Part 1



b7E

CREW¹3136

(07/08/11)

. __





Hand Controller Buttons

67 -CREW





Displays

ь7E CREW-3147





Toolbar Buttons

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(07/08/11)

ь7в REW-3193





Adjusting your terms:

Manned v. Unmanned

ьл RE**V**-3195





Why did they have to be this stupid!!!!

NITF Images

CRE₩332





C:\RPUAV_Logs

This is really important!!!

(07/08/11)

ьтв RE**W**-3224

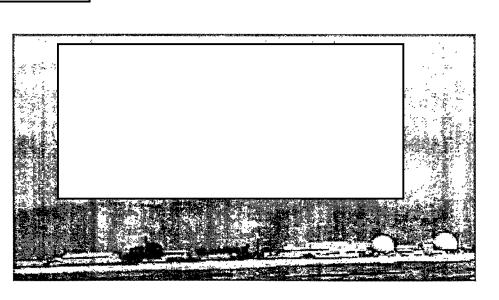


Electronic Logbook



Tracker

Screener DDL



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CREW¹-3242 .





Tracker

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(07/08/11)

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CREW³3254





Screener DDL Live/Full

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(07/08/11)

CREW-3276

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 01-02-2014 BY NSICG F54M93K42





Multiple SUAS Operations

ь7<u>е</u> REW¹-3288 ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 01-02-2014 BY NSICG F54M93K42







Chapter 4

DIE

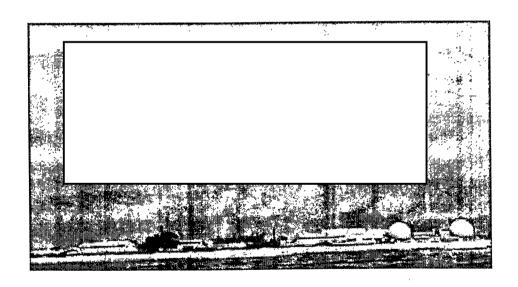
(07/08/11)

CREW¹3298





Range and Bearing Tool



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CREW-3305 7E





Summary

ь7<u>г</u> 5**9**-3326





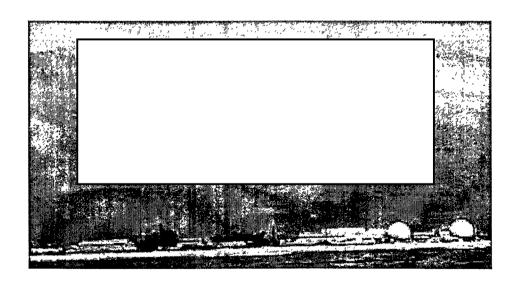
Questions?

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EMERGENCY PROCEDURES



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CREW-3363





Declaration of Independence Articles of Confederation

March 2013

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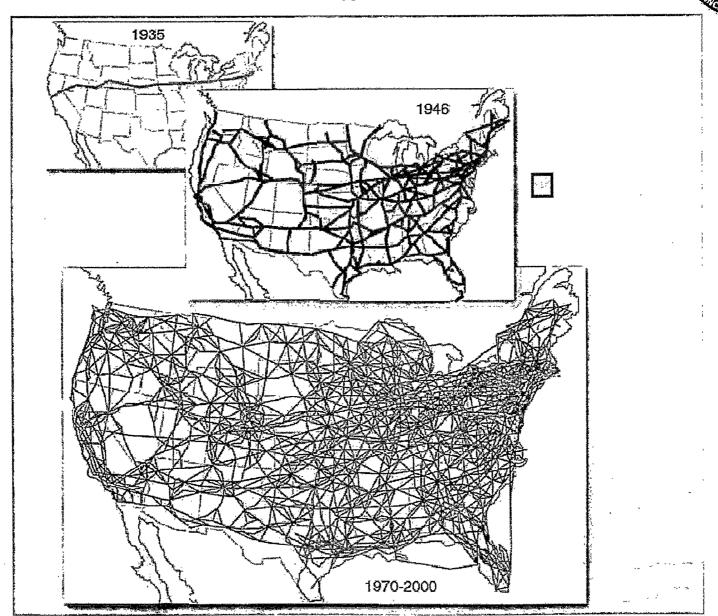
United States Constitution

UNCLAS / LES

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National Airspace System





What motivates the FAA?



March 2013

UNCLAS / LES





14 CFR § 91.113(b)

"Vigilance must be maintained by each person operating an aircraft so as to see and avoid other aircraft."







■ Manned Aircraft

■ Unmanned Aircraft





Mitigating the See & Avoid Requirement





How many terrorists, spies, & criminals live in restricted and warning areas?

Interim Operational Approval Guidance 08-01



Unmanned Aircraft Systems Operations in the U. S. National Airspace System





COA

Certificate of Waiver or Authorization (in the FAA's own words)





COA is an authorization issued by the Air Traffic Organization to a public operator for a specific UA activity.





After a complete application is submitted, FAA conducts a comprehensive operational and technical review.





If necessary, provisions or limitations may be imposed as part of the approval to ensure the UA can operate safely with other airspace users.





In most cases, FAA will provide a formal response within days from the time a completed application is submitted.

b7E





COA online provides a simple 22 page form





Safety of Life Emergency COA



COA available only if...



h7₹





Training flights may be conducted in restricted areas in accordance with range rules.





Flights in the National Airspace System Require FAA Authorization





COA is an authorization issued by the Air Traffic Organization to a public operator for a specific UA activity. After a complete application is submitted, FAA conducts a comprehensive operational and technical review. If necessary, provisions or limitations may be imposed as part of the approval to ensure the UA can operate safely with other airspace users. In most cases, FAA will provide a formal response within 60 days from the time a completed application is submitted.





ECOA

Emergency Certificate of Authorization or Waiver

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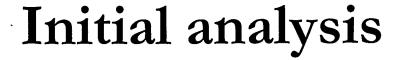


Surveillance request:

b7E

March 2013 UNCLAS / LES







- Suitable location (safety / publicity)
- Class of airspace?
- Airports, Military Training Routes, borders, etc.
- Time days for routine COA)

b71



Airspace



b7E



HQ Involvement



- If initial analysis is go, contact FFOU PM.
- FFOU PM will refer to UAS PM (Homenik)
- UAS PM will be the only point of contact with the FAA.



COA Requirements



- Airworthiness Statement
- Lost Link Procedures
- Observers w/ 2nd Class Medical w/in 1 nm
- ATC communications
- Internal communications
- Night operations? Lighting?
- Pilot qualifications





What if I don't have days?

ECOA

ا/ ط



ECOA



- Comply with all COA requirements
- Based on an existing COA
- Safety of life justification
- Inability to use manned aircraft
- Letter signed by Section Chief or Higher

Federal Aviation Administration 800 Independence Ave Washington, DC 20591

Attention:	b6 b70
RE: Emergency COA	b7E
Dear Ms.	b6 b70
The Federal Bureau of Investigation ("FBI") requests an emerauthorization ("ECOA") due to exigent circumstances.	b3 b7E
	96

The incident of	commander for aviation is the writer. He c	an be reached via mobile
telephone at	and via Blackberry e-mail at	He will also
be the mission pilot in	command.	
	erations will be conducted	Pilot and
observer qualification	s are unchanged from the COA. The area	is unpopulated. Lost link
procedures are per the	e COA.	is requested.

Sincerely,

Richard Thornton

Section Chief

Federal Bureau of

Investigation

b6 b7C b7E





ECOA is issued





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LAW ENFORCEMENT SENSITIVE

FD-1036 (Rev. 10-16-2009)

UNCLASSIFIED//FOUO



b6 b7C

FEDERAL BUREAU OF INVESTIGATION

Import Form

Form Type:	OTHER	Date:	08/22/2013

Title: (U//FOUO) FAA Notice for UAS Operational Approval

Approved By	
Drafted By:	

Case ID #: 321D-IR-A7788-\(\(\text{\Condition}\) (U) FFOU UNMANNED AIRCRAFT - FFOU UNMANNED AIRCRAFT

Synopsis: (U//FOUO) FAA Notice N 8900.227 dated 7/30/2013

**

UNCLASSIFIED//FOUO

FD-1036 (Rev. 10-16-2009)

UNCLASSIFIED//LES



b6 b7C

FEDERAL BUREAU OF INVESTIGATION

Import Form

Form Type: EMAIL Date: 10/09/2013

Title:(U//LES) FW: Final Interim Report - Department of Justice Use and

Support of Unmanned Aircraft Systems

Approved By:	
Drafted By:	

Case ID #: 321D-IR-A7788

(U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT

Synopsis: (U//LES) FW: Final Interim Report - Department of Justice Use and Support of Unmanned Aircraft Systems

Enclosure(s): Enclosed are the following items:
1. (U) Departments_Use_and_Support_for_UAS.pdf

44

UNCLASSIFIED//LES

To: Subject:	(IR) (FBI) FW: Final Interim Report - Department of Justice Use and Support of Unmanned Aircraft Systems UNCLASSIFIED//LES
SentinelCaseId: SentToSentinel:	321D-IR-A7788 10/9/2013 3:13:54 PM
Classification:	UNCLASSIFIED//LES
Sent for Approva	al for RECORD//Sentinel Case 321D-IR-A7788
of FBI and may be distrib enforcement, public safe beyond these entities wit information is stored and bearing the LES caveat m the originating agency. Ro on a website or an unclass (U) LAW ENFORCEMENT of FBI and may be distrib enforcement, public safe beyond these entities with	SENSITIVE: The information marked (U//LES) in this document is the property uted within the Federal Government (and its contractors), US intelligence, law try or protection officials and individuals with a need to know. Distribution shout FBI authorization is prohibited. Precautions should be taken to ensure this lor destroyed in a manner that precludes unauthorized access. Information any not be used in legal proceedings without first receiving authorization from ecipients are prohibited from subsequently posting the information marked LES esified network. SENSITIVE: The information marked (U//LES) in this document is the property uted within the Federal Government (and its contractors), US intelligence, law try or protection officials and individuals with a need to know. Distribution shout FBI authorization is prohibited. Precautions should be taken to ensure this lor destroyed in a manner that precludes unauthorized access. Information
	ay not be used in legal proceedings without first receiving authorization from ecipients are prohibited from subsequently posting the information marked LES sified network.
Unit Chief: Field Fli Office Cel Blackberry Email)	ent Operations Unit
From: Sent: Thursday, Septemble To: DICLEMENTE, ANTHO (OTD) (FBI); (OTD)(FBI); (IR) (FBI); Cc:	(INSD) (FBI) Der 26, 2013 1:30 PM DNY P. (OTD) (FBI); LAMBERT, JANICE J (FD)(FBI); BEAN, W L SCOTT III (FD) (FBI); (OGC) (FBI) (IR) (FBI) (IR) (FBI) (OTD) (FBI) (IR) (FBI) (OTD) (FBI) (OGC) (FBI); (FD) (FBI); (FD) (FBI) (FBI)

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b6 b7C **Subject:** Final Interim Report - Department of Justice Use and Support of Unmanned Aircraft Systems --- UNCLASSIFIED//LES

UNCLASSIFIED//LES

(U) LAW ENFORCEMENT SENSITIVE: The information marked (U//LES) in this document is the property of the FBI and may be distributed within the Federal Government (and its contractors), US intelligence, law enforcement, public safety or protection officials and individuals with a need to know. Distribution beyond these entities without FBI authorization is prohibited.

Precautions should be taken to ensure this information is stored and/or destroyed in a manner that precludes unauthorized access. Information bearing the LES caveat may not be used in legal proceedings without first receiving authorization from the originating agency. Recipicuts are prohibited from subsequently posting the information marked LES on a website or an unclassified network.

Good afternoon,

The Office of the Inspector General (OIG) has issued its Final Interim Report on the "Department of Justice's Use and Support of Unmanned Aircraft Systems." The report will be made public on today. As there are no recommendations specific to the FBI, no further action is necessary at this time.

The Inspection Division would like to extend our appreciation for your efforts throughout the OIG's interim audit. If you have any questions or concerns moving forward, please feel free to contact our office for assistance.





Departments_Use_ and_Support_fo...

Management and Program Analyst/Audit Liaison
Special Request Response Unit
External Audit and Compliance Section
Inspection Division
[office]
[facsmile]

Classification: UNCLASSIFIED//LES

Classification: UNCLASSIFIED//LES

b6 b7С

ь6 b7С FD-1057 (Rev. 5-8-10)

UNCLASSIFIED//FOUO



FEDERAL BUREAU OF INVESTIGATION

Electronic Communication

Title: (U//FOUO) UAS Training and Testing Date: 10/23/2013	
Contact: I	ь6 ь7с
Approved By	
Drafted By:	
Case ID #: 321D-IR-A7788 (U//FOUO) FFOU UNMANNED AERIAL SYSTEMS - FFOU UNMANNED AIRCRAFT	
Synopsis: (U//FOUO) To record the training and testing conducted for the UAS program.	
Details:	
On 09/11/2013, and Program Manager SSA Unmanned Perial Systems	b6 b7С b7Е
These JAS operators performed at least one cycle as Vehicle Operator and one cycle as Mission Operator.	
The following vehicles were flight tested and found satisfactory and ready for deployment.	
	b7E

UNCLASSIFIED//FOUO

UNCLASSIFIED//FOUO

Re: 321D-IR-A7788, 10/23/2013	nd Testing
All flights were conducted in	
*	

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FD-1057 (Rev. 5-8-10)

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b6 b7C b7E

FEDERAL BUREAU OF INVESTIGATION

Electronic Communication

Title: (U)	Transferred from SSA	Date: 10/24/2013
to SSA		
cc:		
From: CRIT INCIDENT RESPONSE IR-ASU Contact:		
Approved By		
Drafted By:	,	
Case ID #: 321D-IR-A7788 -\4	\(\lambda\) (U//FOUO) FFOU UNMANNE FFOU UNMANNED AIRCRAFT	
Synopsis: (U) Documents tran	sfer of	
Details:		
On 10/24/2013, the writer	transferred	
to SSA	for use in sup	port of the
Unmanned Aerial System Progra	m. The device is surplu	s to manned
aviation requirements. The de	vice did not have an FBI	bar code. All
original accessories were inc	luded with the device.	•

UNCLASSIFIED//FOUO